

LCN Fund Full Submission

Supplementary Answer Form

Tick if this answer is Confidential: ☐

Tick if this answer has been provided verbally: ☐

Project code:	UKPNT205	Question Number	UKPNT205 - 20
Question date	17 September 2013	Answer date	19 September 2013
Submission section question relates to	3. Project Business Case		
Topic	Technical		
Question	On page 15 you state that a reduction in energy usage will reduce network reinforcement costs. Please confirm that you are referring to energy usage rather than power.		
Notes on question			
Answer	<p>On page fifteen we discuss 'Demand Shifting' and 'Demand Reduction'. Reduction of reinforcement required through 'Demand Reduction' refers to energy usage (GWh or kWh).</p> <p>To clarify:</p> <ul style="list-style-type: none"> • 'Demand Shifting': Through load shifting, V-CEE aims to reduce apparent power at peak; the 2.5MVA to 5.0MVA. • 'Demand Reduction': Reducing overall energy consumed in V-CEE will impact asset utilisation, thus potentially reducing local distribution network reinforcement. <p>We make an assumption that an overall reduction in energy usage is likely to include a reduction in energy usage during periods of peak demand. We also make an assumption that it will be achieved from this community from behaviour change and simple interventions (turning down appliances and reducing standby power), given their lack of funds to purchase more efficient devices (such as a kettle which boils faster but has the same</p>		

	<p>rating).</p> <p>Given these assumptions, energy efficiency will indeed make a contribution to peak demand reduction which is the driver for reinforcement.</p> <p>Please note that there is little information available about the daily profile of energy efficiency savings – as such, our assumption that these are spread throughout the day including in the peak period is reasonable. The V-CEE project will be able to provide new data on this aspect which has not been well documented.</p>
Attachments	
Verbal Clarifications (Consultants)	